What is claimed is:

1. A truss structure comprising an upper chord member, a lower chord member and a diagonal chord member connected to a parent plate via a connection part formed on the end of each of said chord members, wherein

said upper chord member, said lower chord member and said diagonal chord member comprise a pipe member;

said connection part comprises a tubular section, and a flat section formed integral and continuously with said tubular section which are formed of said pipe member having a same diameter by a constrained pattern shaping press; and

said connection part is connected to said parent plate via a bolt opening formed in said flat section.

2. A truss structure comprising an upper chord member, a lower chord member and a diagonal chord member connected to a parent plate via a connection part formed on the end of each of said chord members, wherein

said upper chord member, said lower chord member and said diagonal chord member comprise a pipe member;

said connection part comprises a pipe tubular section which is formed of said pipe member having a same diameter by a cylindrical drawing, and a flat section formed integral with said pipe tubular section by a flat press; and

said connection part is connected to said parent plate via a bolt opening formed in said flat section.

3. A truss structure according to ~~claims 1 or 2~~ Claim 1, wherein said connection part further comprises said parent plate and a rib erected crosswise thereon, and wherein an edge of said flat section is tapered to allow for each flat section of each chord member to be positioned in close proximity.

4. A truss structure comprising an upper chord member, a lower chord member and a diagonal chord member connected to a parent plate via a connection part formed on the end of each of said chord members, wherein

said upper chord member, said lower chord member and said diagonal chord member comprise a pipe member;

said connection part includes a flat section which is formed by a compression press, an edge of said flat section being tapered, and wherein when assuming that a half length of a distance between two oppositely positioned chord members, i.e., a distance between two connection centers of respective flat sections, is "l", and that a diameter of a bolt provided on the flat sections is "d", there holds a relationship between "l" and "d" that

$1 \leqq \sqrt{2}t/2+10\sqrt{2}+2.0d+B/2$, and

$1>3d$ (mm).

5. A truss structural member for use in a truss construction including such as an upper chord member, a lower

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chord member and a diagonal chord member, each having a connection part formed on the end thereof, wherein said connection part comprises:

a tubular section which is formed by a cylindrical constrained shaping of a pipe, and

a flat section which is formed integral with said tubular section by a flat compression press, and wherein a bolt opening is formed in said flat section.

6. A die for forming a connection part on the end of a pipe member for use in a truss construction as its structural member including an upper chord, a lower chord and a diagonal chord members, comprising:

an upper die and a lower die, each of which having a tubular curved semi-surface open to the outside and counterposed to each other, both of which in combination providing a restriction groove for forming a constrained pattern.

7. A method of forming a truss structural member such as an upper chord, a lower chord and a diagonal chord members to be used in a truss construction, each member having a connection part formed on the end thereof, using a die having an upper die and a lower die, each die having a tubular curved semi-surface which is open to the outside and is positioned opposite to each other, which in combination provides for a restriction groove to form a constrained pattern, comprising

the steps of:

mounting a pipe in said die;

forming a tubular section by constrained compression; and

forming a flat section simultaneously integral and in close proximity with said tubular section.

add A1

Add C3